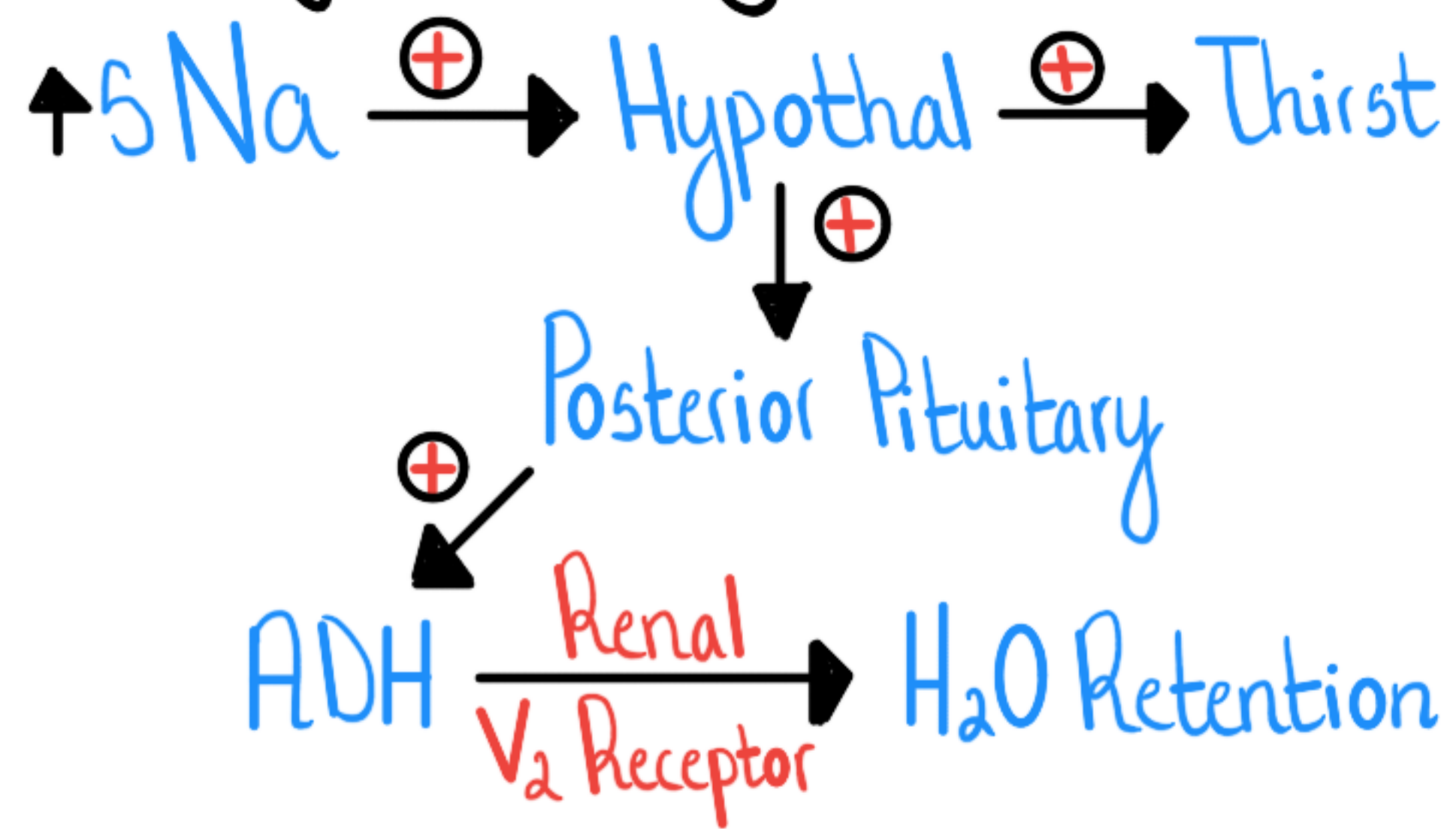


# Physiology



$$\uparrow \text{Na} = \downarrow f \text{H}_2\text{O}$$

## Step 1

**↓ H<sub>2</sub>O Intake**

↓ Access

- NPO
- Desert

Encephalopathy

- Too confused to drink

↓ Thirst *Rare*

- Adipsia

## Step 3

**Hypertonic Intake**

- Sodium Bicarb
- Hypertonic Saline
- Sea H<sub>2</sub>O
- Valproic Acid Toxicity

## Step 2

**↑ H<sub>2</sub>O loss**

$U_{osm} < S_{osm}$

$U_{osm} > S_{osm}$

**Renal**

- Diabetes Insipidus
- Loop Diuretic

**Other**

- GI
- Skin
- Lung